

KATHMANDU UNIVERSITY  
End Semester Examination  
August/September, 2017

SEP 03 2017

Level : B. Sc.  
Year : III  
Time : 2 hrs. 30 mins.

Course : ENVS 318  
Semester : II  
F. M. : 55

SECTION "C"

(Long answer questions)

[5 Q. × 6 = 30 marks]

Attempt ANY *FIVE* questions.

1. Describe the role of light as an environmental factor on growth and development of forest vegetation.
2. What are the vegetation (forest) types found in tropical region of Nepal? Describe them. [2+4]
3. Explain the negative impacts of biotic factors on structure and growth of forests.
4. Do you agree with the statement "Single Tree Selection method of uneven aged silvicultural system is best for the fragile Chure hills of Nepal"? Justify your answer.
5. How can we meet the multiple use objectives of forest management? Describe in the context of Nepal.
6. What is thinning? Why thinning is important in forest management? [2+4]

SECTION "D"

[Short answer questions]

7. Differentiate between (ANY *THREE*) [3 Q. × 4 = 12]
  - a) Silvicultural rotation and Financial rotation
  - b) Wood seasoning and Wood preservation
  - c) Pure forest and Mixed forest
  - d) Girdling and Pollarding
8. Write short notes on (ANY *THREE*) [3 Q. × 3 = 9]
  - a) Concept and principle of sustained yield forest management
  - b) Basic rules of Diameter at Breast Height (DBH) measurement
  - c) Control measures against damages caused by insects to forest trees
  - d) Tree stem form
9. Give reasons why [2 Q. × 2 = 4]
  - a) High temperature (more than 45°C-50°C) has adverse effect on plants.
  - b) Southern aspect is relatively drier than northern aspect.

